

## Products in Family

GRH1333RL/4GB (1 x 4GB 1Rx4 DIMM)  
 GRH1333RL/8GB (1 x 8GB 2Rx4 DIMM)  
 GRH1333RL/16GB (1 x 16GB 2Rx4 DIMM)



Features	Description
240-pin JEDEC-compliant DIMMs 133.35 mm wide by 30 mm high (1.181" x 5.25") Data Transfer Rate: 10.6 Gigabytes/sec Operating Voltage: 1.35 V ±0.075 (1.5 V tolerant) Fully RoHS Compliant Thermal Sensor Heat Spreader	Each GRH1333RL upgrade consists of a single DDR3-1333 Registered DIMM that conforms to JEDEC's DDR3, PC3L-10600 standard. One 2K-bit EEPROM is used for Serial Presence Detect and a combination register/PLL with Address and Command Parity is also used. A thermal sensor accurately monitors the DIMM module and can prevent exceeding the maximum operating temperature of 95C.

Dataram Product	HP Product	Supported in these HP systems:
GRH1333RL/4GB	604504-B21	ProLiant BL2x220c G6/G7, BL280c G6, BL460c G6,
GRH1333RL/8GB	604506-B21	BL490c G6, WS460c G6, DL320 G6, DL360 G7, DL380
GRH1333RL/16GB	627812-B21	G7, DL1000, ML330 G6, ML350 G6, SL160z G6, SL170x G6, SL2x170z G6

## Notes

Tolerances on all dimensions except where otherwise indicated are ±.13 (.005).

All dimensions are expressed in millimeters [inches]

